

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Telephone: (801) 538-5340
Fax: (801) 359-3940

ANNUAL REPORT OF MINING OPERATIONS

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, as amended, and the General Rules as promulgated under the Utah Minerals Regulatory Program. An operator conducting mining operations under a Notice of Intention must file an annual operations and progress report (FORM MR-AR) with the Division.

I. GENERAL INFORMATION

1. Report Time Period: From (mo./yr.) 1/90 To (mo./yr.) 12/90
2. DOGM File Number (original notice): M / 023 / 003
3. Mine Name: Topaz Mining Property
4. Legal Description (Location of Lands Affected):
NE $\frac{1}{4}$ & SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ & NW $\frac{1}{4}$ & SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Sec. 32, in T 12 S, R 12 W, & NW $\frac{1}{4}$,
NE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Sec. 5, in T 13 S, R 12 W. TALUS-SIGMA EMA
NE $\frac{1}{4}$ & SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Sec. 5, in T 13 S, R 12 W, & NW $\frac{1}{4}$ & SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Sec. 8,
in T 13 S, R 12 W. ROADSIDE/FLURO III
SW $\frac{1}{4}$ & SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Sec. 9, in T 13 S, R 12 W, & NW $\frac{1}{4}$ & SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Sec. 16,
in T 13 S, R 12 W. SECTION 16 N #1
5. Mineral(s) Mined: Bertrandite
6. Name of Operator or Company: Brush Wellman, Inc.
7. Permanent Address: P.O. Box 815
Delta, Utah 84624

8. Company Representative (or designated operator):

Name: Greg G. Hawkins
Title: Mine Manager
Address: P.O. Box 815, Delta, UT 84624
Phone: (801) 864-2701

☒ Please check if any of the above information has changed since previous year.

II. MINING AND RECLAMATION

1. Was the mine active during the past year? Yes ☒ No ☐

2. If active, how much ore or mineral was mined? 103,256 Tons

3. Briefly describe any new or additional surface disturbances that occurred during the past year. This description should include the type of work performed, volume of material moved, and the acreage affected.

Two new pits opened: Overburden removal - both pits.

Roadside/Fluro #3: 3,195,569 cubic yards waste; 19.6 acres disturbed.

Section 16 N #1: 740,520 cubic yards waste; 56.4 acres disturbed.

Combined Total: 3,936,089 cubic yards waste; 76.0 acres disturbed.

(SEE ADDENDUM 1 FOR DETAILS)

4. Briefly describe the reclamation work performed during the past year. This description should include acreage reclaimed, methods employed, and an evaluation of the results.

Reclaimed 11.2 acres; constructed berms, 5,200 feet; stockpiled 99,500 cubic yards topsoil: Taurus-Sigma Emma - reclaimed all roads and constructed safety berms.

Roadside/Fluro III - constructed safety berms, stripped & stockpiled 37,500 cubic yards topsoil. Section 16 N #1 - stripped & stockpiled 62,000 cubic yards topsoil, all work conducted per Topaz Mine MRP (SEE ADDENDUM 2 FOR DETAILS).

Results of 12/13/90 visit exceeds commitments of MRP. Due to drought conditions during 1989-90, reclaimed area plant growth is minimal.

5. What was the total unreclaimed acreage at years end? 595 Acres

6. Briefly summarize mining and reclamation planned for the upcoming year.

Per pages 58, 59 of the reclamation plan, all 1990 and prior year reclamation work has been completed. 1991 activities include completion of stripping from Roadside/Fluro #3 and Section 16 #1 pits. A pit berm will be constructed around the top perimeter of Section 16, and if time permits advance reclamation work for Roadside I & II could start. This should be a topic of discussion during the Spring site visit.

NOTE: Section III., "Additional Information" applies only to large mining operations.

III. ADDITIONAL INFORMATION

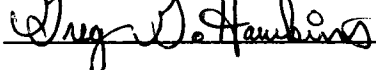
1. An updated surface facilities map should be attached if there have been significant changes since the previous map was submitted. (SEE ADDENDUMS 1 & 2 ATTACHED)
2. Any monitoring results or other reports that are required under the terms of the approved notice of intention should also be attached.

IV. SIGNATURE REQUIREMENT

I hereby certify that the foregoing is true and correct.

Name (Typed or Print): Greg G. Hawkins

Title of Operator: Mine Manager

Signature of Operator: 

Date: 1-31-91

jb
MNMAR-AR

BRUSHWELLMAN

ENGINEERED MATERIALS

DATE: JANUARY 30, 1991

TO: GREG HAWKINS

FROM: JOHN WAGNER *JW*

SUBJECT: DISTURBED ACREAGE DURING 1990

In regards to the Topaz Mining Property, DOGM Mine No. M/023/003, the bulk of surface acreage disturbance which occurred during 1990 was in conjunction with the contracted primary stripping projects which are currently underway. This acreage can be summarized as follows:

1. Roadside/Fluro III Project	Acres
In-Pit surface area	15.42
Less previously existing road	- 0.47
TOTAL IN-PIT AREA	<u>14.95</u>
South spoils area expansion	2.20
North spoils area expansion	1.52
Less previously existing road	- 0.14
TOTAL SPOILS AREA	<u>3.58</u>
SOIL STOCKPILE (Estimated)	<u>1.08</u>
 2. Section 16 North #1 Project	
In-Pit surface area	24.43
Less previously existing borrow pit	- 0.60
Less previously existing road	- 0.53
TOTAL IN-PIT AREA	<u>23.30</u>
Spoils area expansion	32.70
Less previously existing road	- 1.76
TOTAL SPOILS AREA	<u>30.94</u>
NEW ACCESS ROAD (Estimated)	<u>2.12</u>
TOTAL ACREAGE DISTURBED DURING 1990	75.97

JRW/dw
cc: File

SW

BRUSHWELLMAN
ENGINEERED MATERIALS

Brush Wellman Inc.
P.O. Box 815
Delta, Utah 84624
Phone 801/864-2701

January 31, 1991

RECEIVED
FEB 04 1991

D. Wayne Hedberg
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Re: Topaz Mining Property (M/023/003) 1990 Annual Report

Dear Mr. Hedberg:

Enclosed is Brush Wellman's annual report of mining operation for 1990 (Form MR-AR). We have augmented this report under Section III with details as follows:

- Addendum 1. Disturbed areas as a result of our two (2) new pit openings.
- Addendum 2. Topsoil stripping and reclamation completed during 1990.
- Note: Expanded USGS maps of the new areas disturbed (Roadside/Fluro #3 and Section 16) and the old areas reclaimed (Sigma Emma and Taurus) have been included in each addendum as reference.

These three (3) areas were discussed on December 13, 1990 with DOGM, BLM and Brush Wellman representatives, with very favorable reviews from both governmental divisions. We have completed all 1990 reclamation work as outlined in the approved 1988 MRP. In addition to the work, we have been broadcast seeding various roadsides with our standard seed mix and testing other seed varieties; however, since this was not required in our reclamation plan no formal record of this work was kept. Future plans for any additional reclamation testing such as salt and drought tolerant species, as suggested by Holland Shepard, will be recorded. The 1990 seed mix includes Indian Rice Grass, Bottlebrush, Squirreltail, Four Wing Saltbrush, Rabbitbrush and Yellow Clover. This mix was applied per the MRP procedures, with the exception of the active roadsides tested.

Brush Wellman is looking forward to the spring 1991 site visit to determine the surety release of the reclaimed areas. At that time,

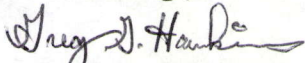
we would like to discuss a reclamation alternative for the Roadside I and II dumps. We appreciate the interactive communications that we have during these visits. It was nice that DOGM and the BLM could both attend.

As far as the drought concerns that we all have, I have asked Gale Bennett, from the BLM Fillmore Office, to provide use with the rainfall history for the past five years. Mr. Bennett said he could also provide us with all future rainfall information he obtains in our area. If the BLM will approve this, it will help us analyze revegetation success.

Please review and advise if you need further information concerning this report.

I am looking forward to an open working relationship with DOGM and the BLM concerning reclamation programs at the Brush Wellman Topaz Mine.

Sincerely,



Greg G. Hawkins
Mine Manager

GGH/dw
Enclosures

cc: Phil Allard - BLM, Warm Springs Region
File